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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,746	09/04/2003	Tetsuya Kanbe	16869G-086800US	9055
20350	7590	03/20/2007	EXAMINER	
TOWNSEND AND TOWNSEND AND CREW, LLP			RICKMAN, HOLLY C	
TWO EMBARCADERO CENTER			ART UNIT	PAPER NUMBER
EIGHTH FLOOR			1773	
SAN FRANCISCO, CA 94111-3834				

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	03/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/656,746	KANBE ET AL.	
	Examiner Holly Rickman	Art Unit 1773	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 22 December 2006.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1 and 3-11 is/are pending in the application.
 4a) Of the above claim(s) 8-11 is/are withdrawn from consideration.
 5) Claim(s) 7 is/are allowed.
 6) Claim(s) 1,3,4 and 6 is/are rejected.
 7) Claim(s) 5 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Objections

1. The objection to claims 8-11 under 37 CFR 1.75(c) as being in improper multiple dependent form is withdrawn in view of Applicant's amendments.

Claim Rejections - 35 USC § 112

2. The rejection of claim 12 under 35 U.S.C. 112, second paragraph, is withdrawn in view of the cancellation of the claim.

Election/Restrictions

3. Newly submitted claims 8-11 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: claims 8-11 are now directed to a patentably distinct species that was not previously considered. The claims are distinct because they require a specific combination of underlayer materials that is not required by the originally presented and examined claims.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 8-11 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1, 3-4, and 6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-2, 9-10, 15-16, and 22-27 of copending Application No. 11/012,387. Although the conflicting claims are not identical, they are not patentably distinct from each other because the present claims are obvious combinations of several of the claims set forth in 11/012,387. It would have been obvious to one of ordinary skill in the art at the time of invention to combine several of the features set forth in the claims of 11/012,387 to achieve the presently claimed invention.

For instance, it would have been obvious to use a first amorphous underlayer formed from NiTa in combination with antiferromagnetically coupled hcp Co-based magnetic recording layers (see claims 1, 2, and 9). Furthermore, it would have been obvious to one of ordinary skill

in the art at the time of invention to use the magnetic recording medium claimed in 11/012,387 in combination with a conventional recording apparatus as claimed (see also abstract of 11/012,387 for disclosure of the claimed recording apparatus).

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

6. The rejection of claim 7 under 35 U.S.C. 102(e) as being anticipated by Doerner et al. (US 6537684) as evidenced by Yoshida et al. (US 6506508) is withdrawn in view of Applicant's arguments.
7. The rejection of claim 1 under 35 U.S.C. 102(e) as being anticipated by Girt et al. (US 6964819) is withdrawn in view of Applicant's amendments.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
9. The rejection of claim 3 under 35 U.S.C. 103(a) as being unpatentable over Girt et al. as applied above, and further in view of JP2001-209927 is withdrawn in view of Applicant's amendments.

10. The rejection of claims 1 and 3 under 35 U.S.C. 103(a) as being unpatentable over Doerner et al. in view of JP2001-209927 is withdrawn in view of Applicant's amendments.

11. The rejection of claim 12 under 35 U.S.C. 103(a) as being unpatentable over either Doerner et al. or Girt et al., in view of Odai et al. (US 6404604) is withdrawn in view of Applicant's amendment.

Examiner's Comment

12. The closest prior art, to Doerner et al. and Girt et al., fails to teach or suggest the claimed amorphous underlayer compositions as required by claims 1 and 3-6.

Of these claims, 3-4 and 6 stand rejected on the ground of non-statutory obviousness type double patenting. Claim 5 is objected to as being dependent upon a rejected claim but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

13. Claim 7 is allowable over the closest prior art to Doerner et al. Doerner et al. fails to teach or suggest the use of a first underlayer formed from a B2 structured alloy as argued by Applicant in the response filed 12/22/06.

Response to Arguments

14. Applicant's arguments filed 12/22/06 have been fully considered but they are not persuasive. Applicant argues that the double patenting rejection has been overcome by the filing of a terminal disclaimer. However, the Office has not received a terminal disclaimer. Therefore, this rejection has been maintained.

15. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Rickman whose telephone number is (571) 272-1514. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571) 272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Holly Rickman
Primary Examiner
Art Unit 1773

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March 15, 2006